

Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Rec'd PCT/PTO 31 JAN 2003

PCT Application  
PCT/JP2002/009691



Applicant's or agent's file reference 110201175971	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP02/09691	International filing date (day/month/year) 20 September 2002 (20.09.02)	Priority date (day/month/year)
International Patent Classification (IPC) or national classification and IPC G02F 1/1335		
Applicant HITACHI, LTD.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 6 sheets, including this cover sheet.
- ☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).
- These annexes consist of a total of \_\_\_\_\_ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 30 October 2002 (30.10.02)	Date of completion of this report 15 October 2003 (15.10.2003)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP02/09691

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

- ☒ the international application as originally filed
- ☐ the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the claims:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement under Article 19  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the drawings:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/fig \_\_\_\_\_

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP 02/09691

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Claims	6-8, 14, 20	YES
	Claims	1-5, 9-13, 15-19	NO
Inventive step (IS)	Claims		YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims		NO

### 2. Citations and explanations

#### Claim 1

Document 1: JP 2002-162623 A (Hitachi, Ltd.), 7 June 2002

The invention described in claim 1 is disclosed in document 1.

#### Claim 2

Document 1

The invention described in claim 2 is disclosed in document 1.

#### Claim 3

Document 1

The invention described in claim 3 is disclosed in document 1.

#### Claim 4

Document 1

The invention described in claim 4 is disclosed in document 1.

#### Claim 5

Document 1

The invention described in claim 5 is disclosed in document 1.

## Claim 6

Document 1

Document 2: JP 2001-242452 A (Hitachi, Ltd.), 7 September 2001

The invention described in claim 6 is merely the application of the uneven pattern disclosed in document 2 to the liquid crystal display device disclosed in document 1.

## Claim 7

Document 1, document 2

The invention described in claim 7 is merely the application of the phase separation pattern disclosed in document 2 to the liquid crystal display device disclosed in document 1.

## Claim 8

Document 1, document 2 (paragraph [0035])

The invention described in claim 8 is merely the application of the conductive material disclosed in document 2 to the liquid crystal display device disclosed in document 1.

## Claim 9

Document 1

The invention described in claim 9 is disclosed in document 1.

## Claim 10

Document 1

The invention described in claim 10 is disclosed in document 1.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP 02/09691

Claim 11

Document 1

The invention described in claim 11 is disclosed in document 1.

Claim 12

Document 1

The invention described in claim 12 is disclosed in document 1.

Claim 13

Document 1

The invention described in claim 13 is disclosed in document 1.

Claim 14

Document 1, document 2 (paragraph [0035])

The invention described in claim 14 is merely the application of the conductive material disclosed in document 2 to the liquid crystal display device disclosed in document 1.

Claim 15

Document 1

The invention described in claim 15 is disclosed in document 1.

Claim 16

Document 1

The invention described in claim 16 is disclosed in document 1.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP 02/09691

Claim 17

Document 1

The invention described in claim 17 is disclosed in document 1.

Claim 18

Document 1

The invention described in claim 18 is disclosed in document 1.

Claim 19

Document 1

The invention described in claim 19 is disclosed in document 1.

Claim 20

Document 1, document 2 (paragraph [0035])

The invention described in claim 20 is merely the application of the conductive material disclosed in document 2 to the liquid crystal display device disclosed in document 1.